



# OIL ANALYSIS REPORT

Sample Rating Trend

**WEAR**



Area  
**Coloring**  
 Machine Id  
**LN2 Cooler**  
 Component  
**Drive End Gearbox**  
 Fluid  
**NOT GIVEN (4 GAL)**



## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

### ▲ Wear

Gear wear is indicated. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0738820</b>	---	---
Sample Date	Client Info		<b>14 Jan 2023</b>	---	---
Machine Age	Client Info		<b>0</b>	---	---
Oil Age	Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>200	<b>▲ 425</b>	---	---
Chromium	ppm ASTM D5185m	>15	<b>3</b>	---	---
Nickel	ppm ASTM D5185m	>15	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185m	>25	<b>2</b>	---	---
Lead	ppm ASTM D5185m	>100	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m	>200	<b>11</b>	---	---
Tin	ppm ASTM D5185m	>25	<b>1</b>	---	---
Vanadium	ppm ASTM D5185m		<b>0</b>	---	---
Cadmium	ppm ASTM D5185m		<b>0</b>	---	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		<b>77</b>	---	---
Barium	ppm ASTM D5185m		<b>2</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>360</b>	---	---
Manganese	ppm ASTM D5185m		<b>4</b>	---	---
Magnesium	ppm ASTM D5185m		<b>2</b>	---	---
Calcium	ppm ASTM D5185m		<b>32</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>922</b>	---	---
Zinc	ppm ASTM D5185m		<b>22</b>	---	---
Sulfur	ppm ASTM D5185m		<b>21788</b>	---	---

## CONTAMINANTS

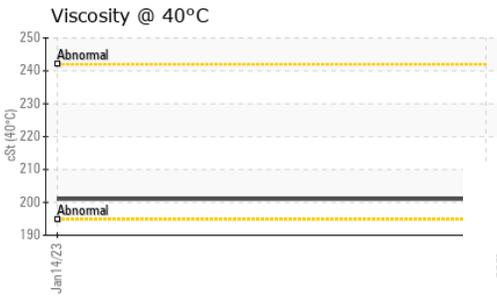
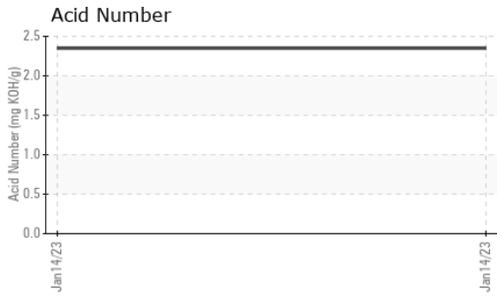
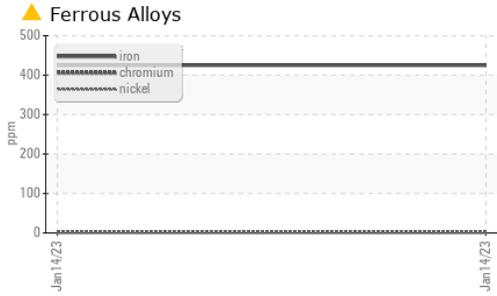
	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>50	<b>19</b>	---	---
Sodium	ppm ASTM D5185m		<b>4</b>	---	---
Potassium	ppm ASTM D5185m	>20	<b>0</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045		<b>2.35</b>	---	---



# OIL ANALYSIS REPORT



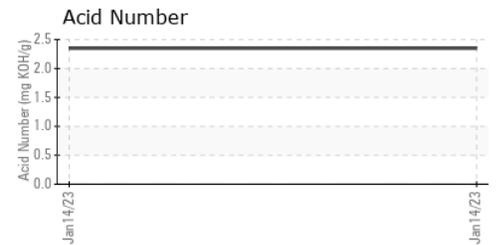
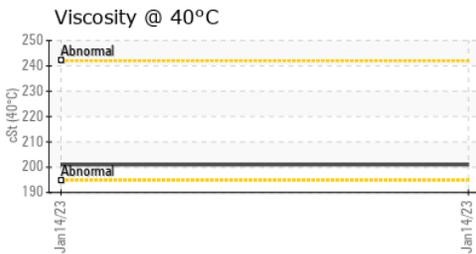
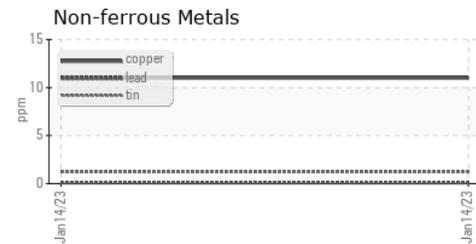
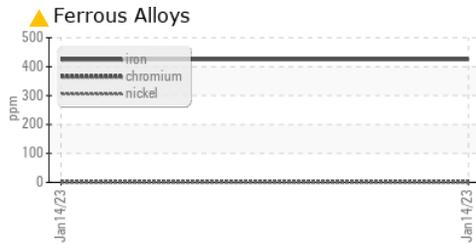
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---
Free Water	scalar	*Visual		<b>NEG</b>	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	<b>201</b>	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0738820 **Received** : 17 Jan 2023  
**Lab Number** : **05740707** **Diagnosed** : 18 Jan 2023  
**Unique Number** : 10295306 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2

**3M - PITTSBORO**  
 4191 NC 87 S  
 MONCURE, NC  
 US 27559  
 Contact: CHARLES JARRELL  
 cjarrell@mmm.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: